

METHOD FOR LOCATING AN ELEMENT OF INTEREST CONTAINED
IN A THREE-DIMENSIONAL OBJECT

ABSTRACT OF THE DISCLOSURE

5 The stereotaxic images being digitized, a target pixel in a target
region of interest is selected, a target window of chosen dimensional
characteristics and containing the said target region of interest is
generated around the selected target pixel, a set of pixels is determined in
a second image, according to a predetermined selection criterion, a
10 second window, of the same dimensional characteristics as the said target
window, is generated around each selected pixel, a correlation processing
between the grey-scale levels of the pixels of each second window and
the grey-scale levels of the pixels of the target window is carried out so as
to obtain a correlation value for each second window, and the region of
15 interest homologous to the target region of interest is identified on the
basis of the analysis of the set of correlation values thus obtained, so as
to minimize the risks of matching error between the homologous regions
of interest. The element of interest is then located on the basis of the
positions of the two homologous regions.

00014822-04449